

SYED FAHAD ABBAS

AI Engineer | Full-Stack Software Developer

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PROFESSIONAL SUMMARY

Full-stack software engineer specializing in AI-powered applications and production LLM systems. Experienced across the full delivery lifecycle: architecting scalable backends, building interactive frontends, and integrating Retrieval-Augmented Generation (RAG), vector databases, and intelligent automation into production products. Strong command of TypeScript, Next.js, Nest.js, React, and Python, backed by solid Laravel and database engineering fundamentals. Proven track record delivering high-quality, user-focused software as a self-directed remote collaborator.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, PHP, SQL, HTML5, CSS3

AI / Machine Learning: Large Language Models (LLM), Retrieval-Augmented Generation (RAG), LangChain, LangGraph, LlamaIndex, Vercel AI SDK, Vector Databases, Embeddings, Prompt Engineering, Agentic Systems, Model Context Protocol (MCP), Computer Vision (Roboflow, Segment Anything Model)

Frameworks & Libraries: Next.js, React, Nest.js, Node.js, FastAPI, Laravel, jQuery, Bootstrap

Databases: PostgreSQL, MySQL, Supabase, Neon (Serverless Postgres), pgvector, Relational Schema Design

Tools & Platforms: n8n Workflow Automation, Vapi Voice AI, Claude Code, Git, REST API Design, Third-Party API Integration

Practices: Agile Delivery, Performance Optimization, Responsive & Cross-Browser Development, Remote Collaboration, Client Communication

PROFESSIONAL EXPERIENCE

AI Engineer — BXTrack Solutions

June 2025 – Present

Islamabad, Pakistan

- Design and build AI-powered features for production applications, including LLM-driven functionality, RAG pipelines, and intelligent automation.
- Architect and integrate vector databases and embedding pipelines to support retrieval-augmented, context-aware AI systems.
- Develop and maintain agentic workflows using MCP servers, custom Claude Code Skills, Hooks, and Sub-agents to automate engineering and product tasks.
- Build end-to-end workflow automations with n8n, connecting APIs, databases, and AI models to streamline business processes.
- Develop voice-calling AI agents using Vapi, integrating telephony, LLMs, and conversational flows for automated call handling.
- Build and deploy computer vision pipelines using Roboflow-trained models and the Segment Anything Model (SAM) for object detection and image segmentation.
- Collaborate with cross-functional teams to translate AI capabilities into user-facing product features, from prototyping through production deployment.
- Evaluate and adopt emerging AI tooling and frameworks (LangChain, LangGraph, LlamaIndex, Vercel AI SDK) to improve delivery speed and system reliability.

Associate Software Engineer — BXTrack Solutions

June 2023 – January 2024

Islamabad, Pakistan

- Designed, built, and maintained full-stack web applications using Laravel and React, delivering features across the stack from database to UI.
- Architected and consumed RESTful APIs and integrated third-party services, extending application functionality.
- Optimized application performance by refining database queries and reducing load times across client projects.
- Managed project timelines, scope, and deliverables, coordinating with stakeholders to ship features on schedule.

Laravel Developer (Remote) — Brainiac Creative Solutions

January 2023 – May 2023

Sargodha, Pakistan

- Architected, developed, and maintained scalable web applications using the Laravel framework.
- Collaborated with distributed teams via video calls, chat, and email to align on requirements and resolve issues.

Web Designer (Internship) — Brainiac Creative Solutions

October 2022 – January 2023

Sargodha, Pakistan

- Translated visual concepts into responsive, accessible web interfaces using HTML, CSS, Bootstrap, and JavaScript.

KEY PROJECTS

Traceo — Co-Founder & CTO — Browser Developer Tool (Own Product)

2024 – Present

- Designing and building a Chrome extension that helps developers and QA teams inspect CSS, capture visual bugs, and record sessions as actionable reports; own the product end to end across engineering and go-to-market.

University ERP System — Final Year Project — NUML, Islamabad

2025 – Present

- Collaborating with the official university team to design and build an ERP system covering student, academic, and administrative management modules, including database schema design and module integration.

Maqdam Voice Agent — AI Voice Agent with Telephony Integration

2025

- Designed a voice agent integrating LLMs and telephony so callers can interact through an AI-driven conversational flow; built the TypeScript front end and voice/event handling.

AI Video Analyzer — AI-Powered Video Analysis Platform

2025

- Built a video analysis platform spanning two front-end iterations and a Python backend for model inference, including video ingestion, API design, and a results/playback UI.

Next.js AI Chatbot — LLM Chatbot Reference Architecture

2025

- Built a Next.js chatbot integrating LLMs via Vercel AI SDK-style patterns (streaming responses, prompt handling, chat persistence), reusable as a starter for domain-specific assistants.

EDUCATION

Bachelor of Science in Computer Science

Feb 2023 – Expected Jan 2027

National University of Modern Languages (NUML), Islamabad

Intermediate (HSSC)

2020 – 2022

Government College University (GCU), Lahore